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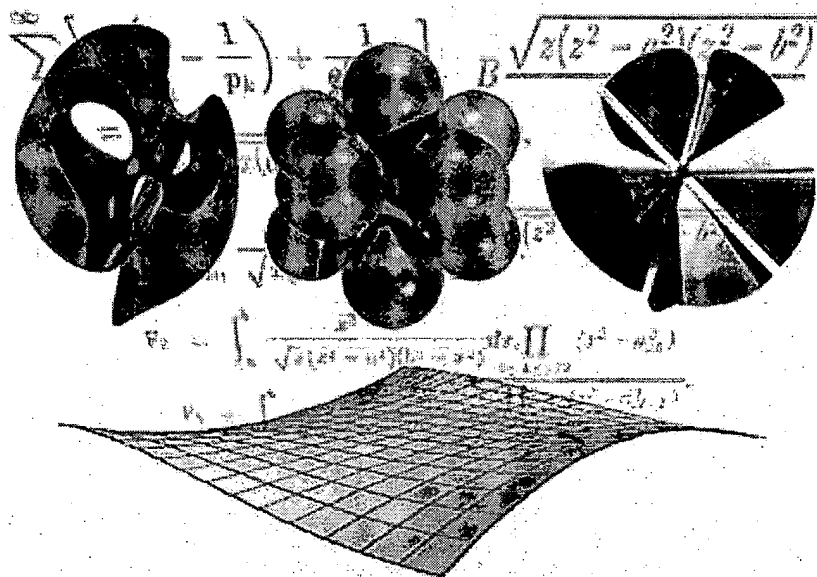
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April 27, 2006

MATHWORLD HEADLINE NEWS

Report a mathematical news item

Lennart Carleson Receives 2006 Abel Prize

The Norwegian Academy of Science and Letters has awarded the 2006 Abel Prize to Lennart Carleson of Royal Institute of Technology, Sweden. Carleson received the Abel Prize for his contributions to harmonic analysis and the theory of smooth dynamical systems. King Harald of Norway will present the Abel Prize to Lennart Carleson at an award ceremony in Oslo on May 23. ♦

43rd Mersenne Prime Found

Less than a year after the 42nd known Mersenne prime was reported (*MathWorld* headline news, February 26, 2005), the GIMPS project has discovered the 43rd known Mersenne prime: $2^{30,402,457} - 1$. The discovery was made by Drs. Curtis Cooper and Steven Boone, professors at Central Missouri State University on December 15, tentatively announced by GIMPS organizer George Woltman on December 19, and independently verified by Tony Reix on December 25. The new Mersenne prime has 9,152,052 decimal digits,

RSA-640 Factored

A team at the German Federal Agency for Information Technology Security (BSI) recently announced the factorization of the 193-digit number known as RSA-640. The team responsible for this factorization is the same one that previously factored the 174-digit number known as RSA-576 and the 200-digit number known as RSA-200. While RSA-640 has slightly fewer digits than the previously factored RSA-200, its factorization carries the additional

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